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TITLE : METHOD FOR OXIDIZING Ti-AL INTERMETALLIC COMPOUND.

ABSTRACT : PURPOSE: To provide a method for oxidizing a Ti-Al intermetallic compound excellent in wear resistance.

CONSTITUTION: A Ti-Al intermetallic compound is subjected to oxidizing treatment under heating under the conditions of $T+50\log H \geq 750$... inequality (a) and $500 + 25 \times Al \geq T$... inequality (b) [where T: treating temp. (°C), H: treating time (h) and Al: the content of Al (wt.%) in the material to be treated] in an atmosphere contg. at least oxygen. In the oxidizing treatment, it is subjected to oxidizing treatment under heating under conditions of $25\log H + T + 0.4 < 1150$... inequality (c) [where P: pressure (Torr)]. Thus, an oxidized film excellent in wear resistance can be obtid. on the surface of the Ti-Al intermetallic compound.

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